

BENCHMARKS

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NORTH TEXAS STATE UNIVERSITY

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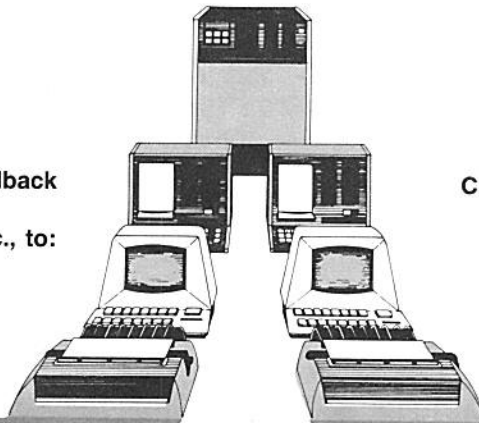
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BENCHMARKS Reader/User feedback is encouraged.

Send all letters, suggestions, etc., to:
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Services Available to Users of the NTSU Computing Facilities

The NTSU Computing Center is located in the Information Sciences Building, Room 119. Telephone: (817) 565-2324. HELP DESK phone: 565-4050.

INFORMATION AND ID CODES - Carolyn Goodman

BENCHMARKS QUESTIONS/CONTRIBUTIONS, ETC. - Claudia Lynch

STATISTICAL/RESEARCH SUPPORT - George Morrow, Victor Loos,
Dave Molta, Scott Barber

STUDENT PROGRAMMING PROBLEMS - CSCI Department, Room 550C, GAB
BCIS Department, Room 152, BA

JCL & DEBUGGING PROBLEMS - Help Desk

PRE-RESEARCH COUNSELING - George Morrow, Victor Loos, Dave Molta,
Scott Barber

DATA ENTRY & KEYPUNCH - Betty Grise

TEST SCORING & ANALYSIS - Betty Grise

PASSWORD AND DISK SPACE PROBLEMS - Carolyn Goodman

OPERATING SYSTEM PROBLEMS - Help Desk

ADMINISTRATIVE APPLICATIONS - Coy Hoggard

COMMUNICATION/TERMINAL PROBLEMS - Help Desk

PRINTOUT RETRIEVAL - RJE Operators

Summer Computing Hours

Computing facilities will be open during the following hours throughout the Summer Semesters (not applicable to holidays):

Computing Center RJE:	7 a.m. Monday - Midnight Saturday Sunday, Noon - Midnight
ISB 110 Terminal Area:	Monday - Thursday, 7:30 a.m. - Midnight Friday, 7:30 a.m. - 6 p.m. Saturday, 8:30 a.m. - 7 p.m. Sunday, 2 p.m. - 10 p.m.
College of Business:	Monday - Saturday, 8:15 - Midnight Sunday, 12:15 p.m. - Midnight
Room 550C, GAB:	Monday - Thursday, 8 a.m. - 11 p.m. Friday, 8 a.m. - 8 p.m. Saturday, Noon - 5 p.m. Sunday, 2 p.m. - 10 p.m.

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Exceptions to Summer Computing Schedules

The following are exceptions to the announced computing schedules for the summer.

GAB 550C: 8/17 Fri: 8 a.m. - 5 p.m.
 8/18 - 9/3 : CLOSED

College of Business : Room 153 will be closed.
 All computing will continue
 as usual in room 152.

Telephone Numbers Added, Deleted

Several new telephone numbers have been added to the Local Area Network, and several have been deleted. Also, more autobaud modems have been installed. Consult the COMMUNICATIONS section of this newsletter for more information.

Troubleshooting: Who to Call When You Have Problems

Having problems with your terminal, PC, the network, etc.? First of all, make sure its something you can't solve. If you are satisfied that the problem is beyond the realm of your expertise, and you are an academic user (faculty, student), call the Help Desk (565-4050). The people there will either help you solve your problem, or connect you with someone who can.

If you are an administrative user, you should call the Computing Center reception area (565-2324). The receptionist will listen to your description of the problem and route your call to the appropriate individual.

New Features on MUSIC

FORUM, a remote bulletin board system (RBBS) contributed from the MUSIC Users Group (MUG), is now available. Type FORUM from the *GO mode in MUSIC to see how the system works. FORUM should be an excellent vehicle with which to share information between MUSIC users.

Several new commands may be entered from *GO mode: SPACE, COPY and TAG. SPACE will tell you both how much space you have used

and how much is available. This is faster than going through PROFILE.

COPY copies the contents of one file to another. The format of the copy command is: COPY OLDFILE,NEWFILE. This will copy the contents of OLDFILE to a new file called NEWFILE.

TAG will set the TAG of a file (just like TAG in Edit mode). The tag allows a 64 character label for each of your files. Just enter the TAG command and follow the instructions.

MVS Overview Available

A copy of the IBM manual, MVS Overview, is available for consultation at the Computing Center. To gain access to this manual, inquire at the reception area, ISB 119.

Using the Impact Printer on the HP 3000 RJE

By Dan Hood, Technical Support Staff

The Computing Center operates a Hewlett-Packard HP 3000 computer as a JES2 Remote Job Entry (RJE) station for printing only. The HP is configured with two printers: a laser printer and an impact printer. The impact printer is similar to the printers on the Remote 3 ISB RJE and the Remote 1 BA RJE.

To access the HP impact printer, you must use SYSOUT=I in your JCL for all print datasets, and then route the output to Remote 4. ROUTE PRINT IMPACT will also work.

A handy way to change the sysout classes for your jobs is to use SYSOUT=* for all print datasets. This parameter (new for MVS/JES2) causes the sysout class to be the same as the MSGCLASS as specified on the JOB card. The default MSGCLASS is A. To use the impact printer on the HP, code MSGCLASS=I on the JOB card and SYSOUT=* on all DD cards for print datasets. All NTSU-supplied JCL PROCS have been modified to include SYSOUT=* wherever SYSOUT=A formerly appeared.

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Backup Schedule for OS/MVS

OS/MVS disk packs (academic and administrative) are backed up daily, Tuesday through Saturday, from 4-6:30 a.m., and Sunday from Midnight to 3 a.m. A backup of all the operating systems and their contents is done once every two weeks at some low

activity period over a weekend.

NAS/8040 Performance Statistics for June

SYSTEM	SCHEDULED OPERATING HOURS	PLANNED MAINT. HOURS	PLANNED PRODUCTION HOURS	UNPLANNED MAINT. HOURS	PRODUCTION HOURS ACHIEVED	SYSTEM UPTIME
VM/SP2	720	2.27	717.28	0.84	716.44	99.9%
MUSIC	720	16.69	703.31	5.59	697.72	99.2%
MVS/JES2	720	3.02	716.98	2.72	714.26	99.6%
COMPLETEA	720	6.39	713.61	3.72	709.89	99.5%

CPU availability equals approximately 100% uptime.

System Uptime=(Production Hrs Achieved)/(Planned Production Hrs)
 Production Hrs Achieved = (Planned Production)-(Unplanned Maint.)
 Scheduled Operating Hrs = (Planned Maint.) + (Planned Production)
 MUSIC Planned Maintenance Hours include 13.69 hrs system backup.

Lost productivity is calculated as the greatest amount of elapsed time that any one of the production systems was unavailable for scheduled operation. Lost productivity hours were contributed to by the following key causes:

CPU, Tape, and Disk Subsystems (NAS)

- | | |
|--|------------|
| 1. Quarterly Periodic Maintenance on CPU | 3.32 |
| 2. NAS 7350 DASD Failures | 0.52 HOURS |

Terminal Control Systems (MEMOREX)

- | | |
|---------------------------|------------|
| 1. 1270 TCU Line Failures | 2.98 HOURS |
|---------------------------|------------|

Miscellaneous

- | | |
|---|------------|
| 1. Undetermined Causes for Systems Restarts | 2.31 HOURS |
| 2. MVS/JES2 System Improvements | 0.80 |
| 3. MUSIC Backup Failure | 0.55 |
| 4. Hydra II Protocol Converter Installation | 0.17 |

TOTAL 3.83 HOURS

GRAND TOTAL 10.65 HOURS

The Most Popular Programs on OS/MVS for June

The following are the six most popular programs on MVS during June, according to Steve Glick of the Technical Support staff.

PROGRAM	DESCRIPTION	NUMBER OF TIMES RUN
1. IKFCBL00	COBOL Compiler	3,583
2. SCRIPT	WATERLOO/Script	3,476
3. IEBGENER	IBM Copy Utility	3,115

4.	SPSS	SPSSX Statistical Package	3,103
5.	SASLPA	SAS Statistical Package	2,392
6.	IEUSAM	IBM Assembler	2,042

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*   C O M P U T I N G
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More New Blood for Academic Computing Services

New Research Programmer

Scott Barber has joined the Academic Computing Services staff as a Research Programmer. He is a graduate of the University of Texas at Austin, with a degree in Social Work and has a Master of Science degree from Texas Christian University in Applied Social Research. He was formerly a Research Assistant with the United States Bureau of Prisons, where he participated in a study of the effectiveness of inmate classification systems, and has most recently conducted surveys for the United Way of Tarrant County. In his new position, Scott will be assisting faculty, staff, and students in research design, data analysis, and the use of statistical software.

New MUSIC Coordinator

Janice Green has become the new MUSIC Coordinator, filling the vacancy left when Steve Glick joined the Technical Support staff here in the Computing Center. Janice comes to us from the Operations section of the Computing Center, where she has been employed as a Senior Computer Operator for the past several years. As MUSIC coordinator, Janice will assist faculty, staff, and students in using the MUSIC operating system and will act as the user consultant for the CMS operating system as well. Janice will complete her BS in Computer Science in the Fall.

Manager's Article Featured in ISSUES

Bob Brookshire, Manager of Academic Computing, has a featured article in the June 1984 ISSUES: The International SPSS Software Users Exchange Newsletter. The article, "Constructing Family Confidence Intervals Using New Regression," was presented at the 1983 ISSUE conference in New Orleans.

New Release of SPSSX Installed

Release 1.1 of SPSSX, on MVS, has been replaced with release 2.0. This version has five new procedures plus several new facilities and LISREL has been updated to Version VI. For more

information, execute SPSSX and issue the INFO OVERVIEW FACILITIES command. It should be noted that if you want to produce any of the PROCEDURES documentation with INFO you need to insert the following line directly below your JOB card:

```
//FT06F001 DD SYSOUT=(A,,TNS1)
```

You will also need to route your output to the laser printer. Please report any problems with this release of SPSSX to Academic Computing Services 565-2324.

SPSSX System Files Installed

Six SPSSX system files, which can be used with some of the examples presented in the SPSSX Introductory Statistics Guides. These files are catalogued datasets, and have the following DSN'S:

```
SYS2.SPSSX.ELECTRIC.DATA
SYS2.SPSSX.BANK.DATA
SYS2.SPSSX.GSS82.DATA
SYS2.SPSSX.PRODUCTS.DATA
SYS2.SPSSX.ALMANAC.DATA
SYS2.SPSSX.GUITAR.DATA
```

Because these data sets are catalogued, you may access them in the following manner:

```
/INC OSJE
TYPE='STUDENT',RETURN
//IDID      JOB (IDID,:30,1),NAME,PASSWORD=SECRET
// EXEC     SPSSX
//EXAMPLE DD DSN=SYS2.SPSSX.ELECTRIC.DATA,DISP=SHR
GET FILE=EXAMPLE
Procedure 1
.
.
Procedure n
```

The appropriate DSN should be inserted in the EXAMPLE DD statement.

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Dialing Up NTSU Computers Over the Telephone

Phone numbers for the local area network are:

(817) 565 - 3499
 3899
 3900
 3966
 3989
 4025
 4026
 4030

D/FW METRO 429 - 6006

The numbers 565-3499, 565-3899, 565-3966, 565-4026, and 565-4030, will accept either 1200 or 300 baud communications. They have an autobaud feature that requires the user to hit the <RETURN> key repeatedly until the receiving modem can determine the appropriate baud rate. The rest of the telephone numbers are for 300 baud communications only. After a communications link has been successfully established, the user will receive the # prompt. At this point, it will be necessary to issue the appropriate CALL command to connect with a computer.

CALL 8040 will connect with the 8040
 (on which you can access MUSIC)
 CALL 8300 will connect with the 8040 at 300 baud
 CALL 3270 will connect with the 8040 through the 3270
 protocol converter
 CALL A780 will connect with VAX system A
 CALL B780 will connect with VAX system B
 CALL 2000 will connect with the HP-2000 computer

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MUSIC Backup Hours

A message will be sent to all users signed on to MUSIC approximately 10 minutes before backups are begun. It will be in the form * * MUSIC SHUT DOWN AT xxxx AM - SCHEDULED BACKUP *. To find out the backup hours while signed on to MUSIC, enter HELP HOURS. The following backup schedule is currently in effect:

Tuesday	3 a.m. (for about 3 hours)	Weekly backup
Wednesday - Saturday	4 a.m. (for about 2 hours)	Daily backup
Saturday	Midnight (for about 2 hours)	Daily backup


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VAX Backup Schedule

Incremental backups of both VAX systems are performed Monday through Thursday at 5 p.m. Any files that have been created or changed are backed up. Users do not have to log out, but any files that are open at the time of the backup will NOT be backed up.

Full backups of both systems are done every Friday at 5 p.m. Again, users do not have to log out, but any files that are open will NOT be backed up.

A "stand alone" backup of both systems is done on the last working day of the month. During this time, all system software, as well as user files, are backed up. The systems must be taken down for this backup, which will usually not last more than 1/2 hour. All users that are logged on will be warned of the impending backup, and must log out.

NOTE: No backups are taken on the weekends. Requests for restoration of files should be made via MAIL to the username OPERATOR.

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HP-2000 Backup Schedule

Routine system backups are scheduled to be performed at the following times:

8 a.m. Monday through Friday for approximately 20 minutes;
4 p.m. Friday for approximately 1.5 hours.

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NAS/6650 Performance Statistics for June

SYSTEM	SCHEDULED OPERATING HOURS	PLANNED MAINT. HOURS	PLANNED PRODUCTION HOURS	UNPLANNED MAINT. HOURS	PRODUCTION HOURS ACHIEVED	SYSTEM UPTIME
MVS/JES2	720	1.27	718.73	1.81	716.92	99.7%
COMPLETEA	289	0.00	289.00	1.58	287.42	99.5%
ADABASA	720	9.57	710.43	2.51	707.92	98.6%

CPU availability equals approximately 100% uptime. Please consult the NAS/8040 Performance Summary for an explanation of cell entries. It can be found under the OPERATIONS section of this newsletter.

Lost productivity is calculated as the greatest amount of elapsed time that any one of the production systems was unavailable for scheduled operation. Lost productivity hours were contributed to by the following key causes:

CPU, Tape, and Disk Subsystems

1. Quarterly Periodic Maintenance on CPU	1.66 HOURS
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Miscellaneous

1. De-Install HyDra II Protocol Converter	0.17 HOURS
2. Power Failure in ISB on I/O Equipment	0.38
3. Restore ADMIN DASD System Library	1.10
4. MVS/JES2 System Tuning/Improvements	0.87

TOTAL	2.52 HOURS
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GRAND TOTAL	4.18 HOURS
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Personnel Movement in Information Systems

The Information Systems Division of the Computing Center has had some recent personnel changes. Sue August, Programmer with the General Systems Team, resigned in June. She had been with this team since April 1981. Paula Davis, Programmer with the Student Records Team, resigned effective July 6. She had been with the team since July 1981 and is joining a firm in Dallas.

Ellen Weissmann has joined the Fiscal Systems team effective June 18, 1984 as a programmer. She and her husband, Paul (who joined our Technical Support staff) moved here from San Antonio.

Get a "Subscription" to BENCHMARKS

BENCHMARKS is a vital link between the NTSU Computing Center and the users of our facilities. It is important for all users of the computing facilities to maintain a file of these newsletters because they contain materials which will periodically update existing documents as well as information and suggestions on uses of OS/MVS, MUSIC, the VAX 11/780's, the HP-2000, and other resources available to NTSU students and faculty. To facilitate the dispersal of BENCHMARKS, ***** FREE ***** subscriptions are now available. To receive yours, send the following information to us either by "snail mail" (the post office or campus mail) or electronically, through the MAIL facility on MUSIC.

Name _____

Mailing Address _____

PLEASE GIVE A CAMPUS ADDRESS (NOT BOX) IF POSSIBLE! - It's
Cheaper !!

PLEASE RETURN TO:

Academic Computing Services
The Computing Center
NT Box 13495
North Texas State University
Denton, TX 76203